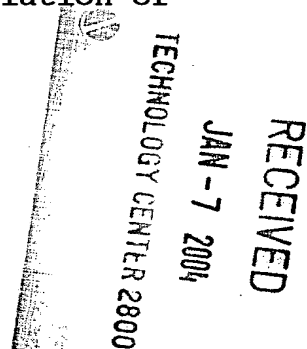




VERIFICATION OF TRANSLATION

I, Takashi OHTA, 304-8, jyoroku, Sakai-Shi,
Osaka, Japan, hereby declare that I am conversant
with the English and Japanese languages. I further
declare that to the best of my knowledge and belief
the following is a true and correct translation of
Japanese patent application No.10-333940.



Date: September 26, 2003

Takashi Ohta

Takashi OHTA

[Title of the Document] Patent Application

[Title of the Invention] REFLECTING MICROOPTICAL SYSTEM

[What is claimed is]

[Claim 1] A reflecting microoptical system comprising from a long conjugate distance side a first surface convex to the long conjugate distance side and a second surface convex to a side opposite to the long conjugate distance side,

wherein a luminous flux passing through a peripheral part of said first surface to be refracted is reflected at a peripheral part of said second surface, is again reflected at a central part of said first surface and is imaged in a vicinity of a vertex of said second surface.

[Claim 2] A reflecting microoptical system as claimed in claim 1, wherein said first surface and said second surface are both aspherical.

[Claim 3] A reflecting microoptical system as claimed in claim 1, wherein said first surface is aspherical.

[Claim 4] A reflecting microoptical system as claimed in claim 1, wherein said second surface is aspherical.

[Claim 5] A reflecting microoptical system comprising from a long conjugate distance side a first surface convex to the long conjugate distance side and a second surface being a plane surface,

wherein a luminous flux passing through a peripheral part of said first surface is reflected at a peripheral part of said second surface, is again reflected at a central part of said first surface and is imaged in a vicinity of a

vertex of said second surface.

[Claim 6] A reflecting microoptical system as claimed in claim 5, wherein said first surface is aspherical.

[Claim 7] A reflecting microoptical system comprising from a long conjugate distance side a first surface being a plane surface and a second surface convex to a side opposite to the long conjugate distance side,

wherein a luminous flux passing through a peripheral part of said first surface is reflected at a peripheral part of said second surface, is again reflected at a central part of said first surface and is imaged in a vicinity of a vertex of said second surface.

[Claim 8] A reflecting microoptical system as claimed in claim 7, wherein said second surface is aspherical.

[Claim 9] A reflecting microoptical system comprising from a long conjugate distance side a first surface concave to the long conjugate distance side and a second surface strongly convex to a side opposite to the long conjugate distance side,

wherein a luminous flux passing through a peripheral part of said first surface to be refracted is reflected at a peripheral part of said second surface, is again reflected at a central part of said first surface and is imaged in a vicinity of a vertex of said second surface.

[Claim 10] A reflecting microoptical system as claimed in claim 9, wherein said first surface and said second surface are both aspherical.

[Claim 11] A reflecting microoptical system as claimed in claim 9, wherein said first surface is aspherical.